BRUHATH BANGALORE MAHANAGARA PALIKE,

E-MB

Name of Work: Providing Sinking of Borewells & Pipe line other Works in Ward No 15, Daasarahalli sub Division.

Job Code- 015-19-000010 *Est Cost Rs 40.00 Lakhs*

Sl No	Description	Unit	Nos	L	B	D	Qty.	Rate	Amount
1	Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour etc.,PRE- Bangalore								
	a) New Masidi Road	No	1						
	b) Kaliyamma temple 6th cross	No	1						
	c) Pipe line road Ayyappa Chowtri front side	No	1						
	d) Nrupatunga Road near Church	No	1						
		Total	4				4.00	1764.00	7056.00
	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified.,PRE- Bangalore Circle-2014-15, Page No-46, Item No-9.1.1 to 9.1.7								
	a) New Masidi Road	Rmt							
2	0.00 to 50.00 mtrs		1	50.00			50.00	286.00	14300.00
3	50mtr to 100.00 mtr		1	50.00			50.00	375.00	18750.00
4	100.00 to 150.00 mtr		1	50.00			50.00	417.00	20850.00
5	150.00 to 200.00 mtr		1	50.00			50.00	441.00	22050.00
6	200.00 to 250.00 mtr		1	50.00			50.00	509.00	25450.00
7	250.00 to 300.00 mtr		1	50.00			50.00	546.00	27300.00
8	300.00 to 350.00 mtr		1	50.00			50.00	582.00	29100.00
9	350.00 to 364.5 Mtr		1	14.50			14.50	617.00	8947.00

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	b) Kaliyamma temple 6th cross								
	0.00 to 50.00 mtrs		1	50.00			50.00	286.00	14300.00
	50mtr to 100.00 mtr		1	50.00			50.00	375.00	18750.00
	100.00 to 150.00 mtr		1	50.00			50.00	417.00	20850.00
	150.00 to 200.00 mtr		1	50.00			50.00	441.00	22050.00
	200.00 to 250.00 mtr		1	50.00			50.00	509.00	25450.00
	250.00 to 300.00 mtr		1	50.00			50.00	546.00	27300.00
	300.00 to 350.00 mtr		1	50.00			50.00	582.00	29100.00
	350.00 to 364 Mtr		1	14.00			14.00	617.00	8638.00
	c) Pipe line road Ayyappa Chowtri front side								
	0.00 to 50.00 mtrs		1	50.00			50.00	286.00	14300.00
	50mtr to 100.00 mtr		1	50.00			50.00	375.00	18750.00
	100.00 to 150.00 mtr		1	50.00			50.00	417.00	20850.00
	150.00 to 200.00 mtr		1	50.00			50.00	441.00	22050.00
	200.00 to 250.00 mtr		1	50.00			50.00	509.00	25450.00
	250.00 to 300.00 mtr		1	50.00			50.00	546.00	27300.00
	300.00 to 350.00 mtr		1	50.00			50.00	582.00	29100.00
	350.00 to 364.5 Mtr		1	14.50			14.50	617.00	8947.00
	a) New Masidi Road								
	0.00 to 50.00 mtrs		1	50.00			50.00	286.00	14300.00
	50mtr to 100.00 mtr		1	50.00			50.00	375.00	18750.00
	100.00 to 150.00 mtr		1	50.00			50.00	417.00	20850.00
	150.00 to 200.00 mtr		1	50.00			50.00	441.00	22050.00
	200.00 to 250.00 mtr		1	50.00			50.00	509.00	25450.00
	250.00 to 300.00 mtr		1	50.00			50.00	546.00	27300.00
	300.00 to 350.00 mtr		1	50.00			50.00	582.00	29100.00
	350.00 to 363 Mtr		1	13.00			13.00	617.00	8021.00
10	Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe· grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (Inclusive of all taxes) (PRED 2012-13 Page No iii item No:								
		Mtr							
	a) New Masidi Road		1	11	6		66.00		
			1	1	2.5		2.50		
	b) Kaliyamma temple 6th cross		1	11	6		66.00		
			1	1	3		3.00		
	c) Pipe line road Ayyappa Chowtri front side		1	11	6		66.00		
			1	1	2.5		2.50		
	d) Nrupatunga Road		1	11	6		66.00		

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	near Church		1	1	3		3.00		
							275.00	1206.00	331650.00
11	Providing and Fixing 250mm dia PVC pipe and as per Specification and Direction (BWSSB SR 13-14, P.No.53, IT.No01 of Sl No.11								
	a) New Masidi Road	Mtr	1	18			18.00		
	b) Kaliyamma temple 6th cross		1	18			18.00		
	c) Pipe line road Ayyappa Chowtri front side		1	18			18.00		
	d) Nrupatunga Road near Church		1	18			18.00		
							72.00	1031.00	74232.00
12	Providing 175 mm dia MS Collar (RDED SR page ii, item86)								
		Each							
	a) New Masidi Road		1	12			12.00		
	b) Kaliyamma temple 6th cross		1	12			12.00		
	c) Pipe line road Ayyappa Chowtri front side		1	12			12.00		
	d) Nrupatunga Road near Church		1	12			12.00		
				Total			48.00	136.00	6528.00
13	Providing 175 mm dia MS Cap(as per RDED SR page ii, item-85)								
		Each							
	a) New Masidi Road		1	1			1		
	b) Kaliyamma temple		1	1			1		
	c) Pipe line road		1	1			1		
	d) Nrupatunga Road		1	1			1		
				Total			4.00	91.00	364.00
14	Supply and delivery at site brand new submersible pumpset suitable for borewell of 165mm dia and having the declared duty conditions as detailed below and satisfying performance Characteristics for pump and motor as declared by the bureau of indian stand. the pumpset should conform to IS : 8034-1989 (With all its latest amendments) and Should bear ISI Certification mark IS : 8034-1989 Sub mercible pumpset 20HP 40 stage Texmo/Taro or equalents Brands (KPWD SR 2018-19 Page No: XLII Item No 56)								
		Each							
	a) New Masidi Road		1	1			1		
	b) Kaliyamma temple 6th cross		1	1			1		
	c) Pipe line road Ayyappa Chowtri front side		1	1			1		
	d) Nrupatunga Road near Church		1	1			1		
				Total			4.00	77529.00	310116.00

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15	KSRB13-1.1 : Providing and fixing to wall, ceiling and floor galvanised /mild steel tube nominal bore with fittings (medium grade weight 1.27 kg/mtr) B class including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification 50 mm Dia No.KBS 13.2.14 / 13.8 P-92, Sl.No. 13.6 PWD SR 2018-19								
	a) New Masidi Road	Rmtr	1	48x6			288.00		
			1	1x2			2.00		
	b) Kaliyamma temple 6th cross		1	48x6			288.00		
			1	1x2			2.00		
	c) Pipe line road Ayyappa Chowtri front side		1	48x6			288.00		
			1	1x2			2.00		
	d) Nrupatunga Road near Church		1	48x6			288.00		
			1	1x2			2.00		
				Total			1160.00	493.00	571880.00
16	Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts BWSSB SR 2014-15, P-535, I. 30Page no:12 sl no: 2.10.4								
		Rmtr							
	a) New Masidi Road		1	580.00			580.00		
	b) Kaliyamma temple		1	580.00			580.00		
	c) Pipe line road		1	580.00			580.00		
	d) Nrupatunga Road		1	580.00			580.00		
				Total			2320.00	150.00	348000.00
17	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp PRED ISSUE RATE								
		No							
	a) New Masidi Road		1	4			4		

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	b) Kaliyamma temple 6th cross		1	4			4		
	c) Pipe line road Ayyappa Chowtri front side		1	4			4		
	d) Nrupatunga Road near Church		1	4			4		
				Total			16.00	13470.00	215520.00
18	Fabricating Supplying and mounting MS Box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear description, 9Providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamp with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 Sq cm (P.No.530, I No 39 BWSSR SR 2013-14)								
	a) New Masidi Road	No	4	1100	20		88000		
	b) Kaliyamma temple 6th cross								
	c) Pipe line road								
	d) Nrupatunga Road near Church								
				Total			88000.00	0.32	28160.00
19	Providing & Fixing of Clamps set and Borewell cap to the pump (MR)								
	Qty Vide Item No 01 For the Work of a,b,c,d,	No	4	1			4.00	1737.00	6948.00
20	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation PWD SR 2018-19, P.No-XLVII, Sl No.16								
	Qty Vide Item No 01 For the Work of a,b,c,d,	No	4	1			4.00	1737.00	6948.00
21	Supplying and delivery of brand new best make Gate Valve of Size 50MM as per IS 778/84 with latest amendments with ISI mark 50mm Gate Vavle for distributer pipeline 50mm Dia (PWD SR 2018-19, P.No-XLVII, Sl No.15								
	Qty Vide Item No 01 For the Work of a,b,c,d,	No	4	4			16.00	1737.00	27792.00
22	Providing & Fixing of 50mm GI Short bend to motor (PWD SR 2018-19, P.No.XXXIX, GI Pipe Fittings, ISI Standard Table								
	Qty Vide Item No 01 For the Work of a,b,c,d,	No	4	1			4.00	212.00	848.00

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23	Supplying and fixing 50mm GI Union PWD SR 2015-16, P.No.XXXVII,							
		Nos						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	2			8.00	216.00	1728.00
24	Supplying and fixing 50mm GI Elbow PWD SR 2015-16, P-XXXVII							
	Qty Vide Item No 01 For the Work of a,b,c,d,							
		Nos	4	1			4.00	102.00	408.00
25	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required, P-427, I-11 (a), BWSSB SR 2012-13.							
		per Length						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	50			200.00	82.00	16400.00
26	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont floor type etc., complete PRED ISSUE RATE							
		Nos						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	1			4.00	432.00	1728.00
27	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required P-526, I-13 (P, a), BWSSB SR 2013-14.							
		Nos						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	1			4.00	825.00	3300.00
28	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 K V class 4 crore 16 sqmm cable 9Confirming to IS 1554) P.No.553, IT.No 10(d) BWSSB SR 2013-14							
		Mtr						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	45			180.00	154.00	27720.00

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29	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete P-554, I-12 (b), BWSSB SR2013-14.								
		Mtr							
	Qty Vide Item No 01 For the Work of a,b,c,d,								
			4	45			180.00	51.00	9180.00
30	Supplying and fixing class A GI pipe on pole/Wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm 9P.No.555, IT No.15 (b) BWSSB SR 2013-14.								
		Mtr							
	Qty Vide Item No 01 For the Work of a,b,c,d,								
			4	3			12.00	226.00	2712.00
31	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia P-552, I-7, BWSSB SR 2013-14.								
		Nos							
	Qty Vide Item No 01 For the Work of a,b,c,d,								
			4	1			4.00	1548.00	6192.00
32	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc., P-555, I No-16(b), BWSSB SR 2013-14								
		Nos							
	Qty Vide Item No 01 For the Work of a,b,c,d,								
			4	1			4.00	248.00	992.00
33	Supoplying Shunt capacitor's comfirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating Nos (MR)								
		Nos							
	Qty Vide Item No 01 For the Work of a,b,c,d,								
			4	1			4.00	1229.00	4916.00

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34	Providing & Fixing Gun Metal Gate wheel valve confirming to IS Specifivation of approved make as per direction including all lead and lift etc., complete 50mm dia 9P.No.94, It.No.13.796, PWD SR 18-19							
		Nos						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	3			12.00	708.00	8496.00
35	Supplying and fixing of polished wood board made up not less than 15mm thick plank in both side with plank made out on not more than 2 piecess and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20x20x2.5 inches (P.No.521, I.No.2(f), BWSSB SR 2013-14							
		Nos						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
			4	1			4.00	284.00	1136.00
36	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS 2.1.C/2.9.4/2.18/2.19 (Pg. No-06, I.No-2.4)PWD - SR 2018-19)							
		Cum						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
	Borewell Surrounding Connections		4	30x4	0.60	0.75	216.00		
			Qty Limited to				214.20	433.00	92749.00
37	Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of 6kg/Sqm 75mm Dia.(Page NO-115, iTEM no-3.4.2 (b), of PRE SR 2012-13).							
		Rmt						
	Qty Vide Item No 01 For the Work of a,b,c,d,							
	Borewell Surrounding Connections		4	30x4			480.00		
			Qty Limited to				476.00	315.00	149940.00

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38	KSRB-2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as specifications.. allow 60% of rate considered under item KSRB 2.3 Page No. 7/ Item No. 2.11/PWD - SR 2018-19)								
		Cum							
	Qty Vide Item No 01 For the Work of a,b,c,d,								
	Borewell Surrounding Connections		4	30x4	0.60	0.75	216.00		17/04
				Qty Limited to			214.20	117.00	25061.00
39	Providing and Supplying Water Through water tanks of capacity 6000 its on higher Basis everyday from 6.00 A M to 6.00 PM as per the direction of the Engineer of the work higher charges will be inclusive desile, oil spare parts and other consumbles inclusive of driver and etc.,								
		Days							
			30	5			150.00		
							150.00	468.00	70200.00
								Sub Total	3024653.00
40	GST Charge 12%								362958.00
								TOTAL	3387611.00

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 BWSSB SR 13-14
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer 27/04/2020
Ward-15

Asst. Exeutive Engineer
T.Dasarahalli Sub-division
BBMP, Bangalore

Exeutive Engineer
Dasarahalli division
BBMP, Bangalore

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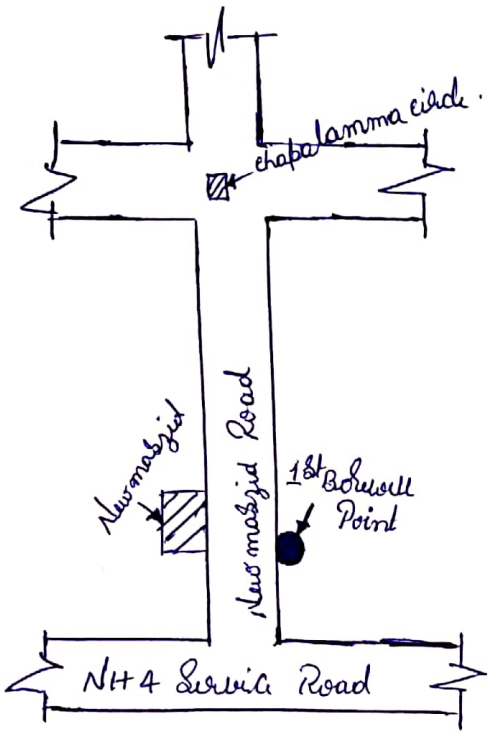
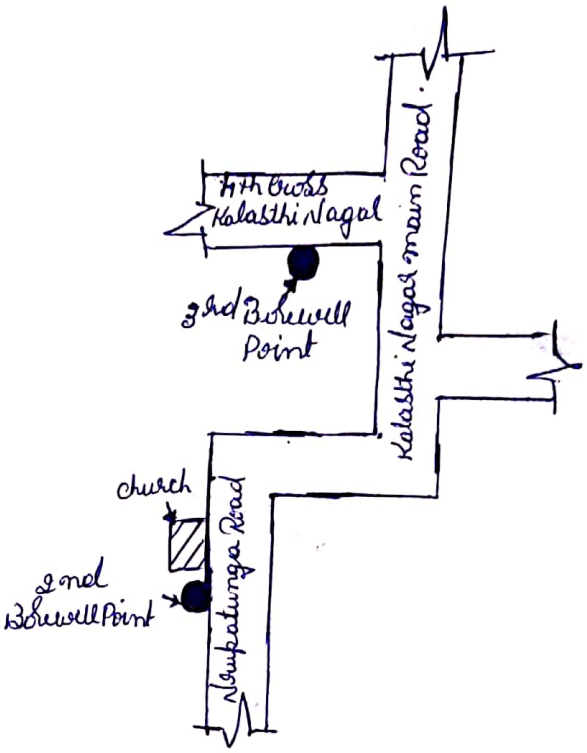
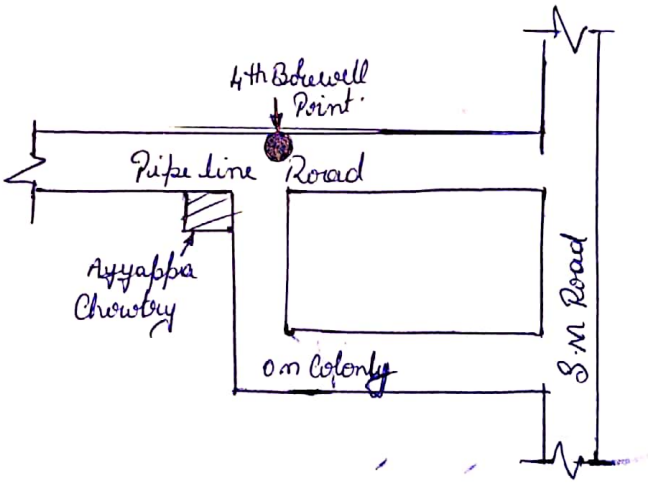
Name of work:- Providing Sinking of Borewells & pipe line other works in ward No-15. Basarahalli Sub-division







1. New masjid Road
2. Nrupatunga Road near church
3. Kalasthi Nagar 4th cross.
4. Pipeline Road near Ayyappa chowtry.

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